

LISTING OF CLAIMS

1. (CURRENTLY AMENDED) A method of mass producing double-sided optical discs, said discs having one or more data layers on each side, comprising:

providing data from a controller to a master producing process;

producing with the process master discs, including a set of master discs for the layers of one side and second set of master discs for the layers of the other side, the first set of master discs having data arranged along a first spiral, and the second set of master discs having data arranged along a second spiral,

said first and second spirals being mirror images of each other; and using said master discs to form said double-sided optical discs,

said first set of master discs includes an inner and an outer master disc for the first side and the second set of master discs includes an inner and an outer master disc for the second side.

2. (ORIGINAL) The method of claim 1 wherein
the step of producing said master discs includes forming on said discs special areas defining rotation direction indicia for the discs to be mass produced.

3. (ORIGINAL) The method of claim 2 wherein

one of said special areas includes data disposed in a third spiral opposite the direction of the first spiral,

said one special area being formed on at least one of the two master discs of said first set.

4. (ORIGINAL) The method of claim 1 wherein
the data includes a first set of segments for a first side and a second set of segments for a second side, and
wherein said step of producing said master discs includes synchronizing the segments to corresponding zones on the master discs such that corresponding segments for said first and second sides are produced on corresponding zones of the master discs.

5. (ORIGINAL) The method of claim 4 wherein
the corresponding zones on the master discs are selected such that the mass produced discs have approximately equal playing speeds for the corresponding data zones.

6. (ORIGINAL) The method of claim 1 wherein
at least one side of the discs has only a single data layer and one of said sets includes only a single master disc for producing said single data layer.

7. (ORIGINAL) The method of claim 1 wherein at least one of said sets includes at least two master discs.

8. (ORIGINAL) The method of claim 1 wherein
said data includes program data and disc characteristic information,
said disc characteristic information including information related to
the manner in which the discs are to be played.

9. (ORIGINAL) The method of claim 1 wherein
said master discs are arranged to form a main section on the discs,
said main section being formatted to accept data, and another
section with disc characteristic information defining a manner in which discs are
played.

10. (ORIGINAL) A system for mass producing optical discs
comprising:
a controller transmitting data;
a master producing process receiving the data and generating a
first and a second pair of master discs,
the first pair of master discs having data disposed along a first
spiral and the second pair of master discs having data disposed along a second
spiral,
said first and second spirals being mirror images of each other; and

a station using said four master discs to make said double-sided optical discs.

11. (CURRENTLY AMENDED) A system for mass producing optical discs comprising:

a controller transmitting data;

a master producing process receiving the data and generating a first and a second pair of master discs,

the first pair of master discs having data disposed along a first spiral and the second pair of master discs having data disposed along a second spiral,

said first and second spirals being mirror images of each other; and

a station using said four master discs to make said double-sided optical discs. ~~The system of claim 10 wherein~~

the first pair of master discs includes an inner and an outer master disc for the first side and the second pair of master discs includes an inner and an outer master disc for the second side.

12. (CURRENTLY AMENDED) ~~The system of claim 10~~ claim 11 wherein

said data includes first and second data segments for the first and second sides of the mass produced optical discs and

the controller synchronizes the first and second data segments so that they are formed on corresponding zones of said first and second sides.

13. (ORIGINAL) The system of claim 12 wherein the corresponding zones of said first and second sides have approximately the same angular rate when the disc is played.

14. (CURRENTLY AMENDED) A system for mass producing optical discs comprising:

a controller transmitting data;

a master producing process receiving the data and generating a first and a second set of master discs,

the first set of master discs having data disposed along a first spiral and the second pair of master discs having data disposed along a second spiral,

said first and second spirals being mirror images of each other;

and a station using said sets of master discs to mold said double-sided optical discs

the first set of master discs includes an inner and an outer master disc for the first side and the second set of master discs includes an inner and an outer master disc for the second side.

15. (ORIGINAL) The system of claim 14 wherein

at least one of said sets of master discs includes only one master disc.

16. (ORIGINAL) The system of claim 14 wherein
at least one of said sets of master discs includes at least two
master discs.